

AMENDMENTS TO THE CLAIMS

1. (CURRENTLY AMENDED) An oscillating reluctance motor comprising:

a rotor having a rotational shaft fixed to a center of the rotor ~~which a rotational shaft is fixed to, and from which~~ a pair of teeth protruding from the center of the rotor and being positioned opposing to each other with respect to the rotational shaft ~~are protruded formed outside, said rotor teeth facing each other centering on the rotational shaft ;~~

a stator ~~in which~~ having a cylindrical space ~~is formed~~ so that the rotor can rotate therein and first and second winding parts ~~are formed; and~~

~~a rotation control means which is installed between the rotor and a stator thus to control rotation of the rotor,~~

~~wherein a first winding coil is wound on the first winding part, a second winding coil is wound on the second winding part and the first winding part and the second winding part are formed having an angle centering around the rotational shaft as a pair so that the rotor can perform periodical rotation movement~~

a first winding coil being wound on a first winding part;

a second winding coil being wound on a second winding part;

a rotary bar combined with the rotational shaft; and

a coil spring connected to the rotary bar so as to control the rotation of the rotor at a predetermined angle.

2. (CANCELLED).

3. (CANCELLED).

4. (CANCELLED).

5. (CANCELLED).

6. (CANCELLED).

7. (CANCELLED).

8. (CURRENTLY AMENDED) A gas compressor ~~using~~ having the oscillating reluctance motor in accordance with claim 1, said oscillating reluctance motor performing reciprocating rotational movement of a certain angular interval for said gas compressor, said gas compressor comprising:

~~the oscillating reluctance motor in accordance with claim 1 for performing reciprocating rotational movement of a certain angular interval;~~

a connecting rod being combined with an eccentric part ~~which is combined to an eccentricity part installed at one end portion of the rotational shaft in the oscillating reluctance motor;~~

a piston ~~which is~~ connected to ~~one~~ a first end portion of the connecting rod; and

a cylinder having a space in which the piston performs reciprocating movement to compress gas.

9. (CANCELLED).

10. (CANCELLED).

11. (CANCELLED).

12. (CANCELLED).

13. (CANCELLED).

14. (CANCELLED).